

Principal Investigator: Monsere, Christopher M.

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## BIOGRAPHICAL SKETCH

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NAME Christopher M. Monsere	POSITION TITLE Research Assistant Professor Department of Civil and Environmental Engineering
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (s)	YEAR(s)	FIELD OF STUDY
Iowa State University, Ames IA	Ph.D.	2001	Civil Engineering
Iowa State University, Ames IA	M.S.C.E	1997	Civil Engineering
University of Detroit Mercy, Detroit MI	B.C.E.	1995	Civil Engineering

### A. Positions and Honors

#### Positions

- 2004- present Research Assistant Professor, Civil and Environmental Engineering. Portland State University, Portland, Oregon
- 2004- present Assistant Director, Intelligent Transportation Systems Laboratory, Civil and Environmental Engineering, Portland State University. Portland, Oregon
- 2003-2003 Adjunct Instructor, Civil and Environmental Engineering, Portland State University. Portland, Oregon
- 2000- 2004 Highway Safety Engineer, Oregon Department of Transportation. Salem, Oregon
- 1996-2000 Dwight D. Eisenhower Research Fellow, Iowa State University. Ames, Iowa
- 1995-2000 Research Assistant, Iowa State University. Ames, Iowa
- 1994- 1995 Assistant Project Manager, Angelo Iafrate Construction Company. Warren, Michigan
- 1993- 1994 Assistant Estimator, Albert Kahn Associates, Inc.. Detroit, Michigan
- 1991-1993 Engineering Assistant, Hubbell, Roth and Clark. Bloomfield Hills, Michigan

#### Honors

- Young Professional Achievement Award, District 6 ITE (Western United States), 2005
- Young Transportation Engineer of the Year, Oregon Section of ITE, 2005
- Excellence Award, Oregon Department of Transportation, 2001
- Trailblazer Award, American Association of State Highway and Transportation Officials, 2000

#### Membership in State or National Organizations

- Oregon Highway Cost Allocation Study, Review Team Panel Member, 2004-2005
- Institute of Transportation Engineers, Member
- Transportation Research Board
  - ANB25T -Task Force for the Development of Highway Safety Manual
  - ANB20 - Transportation Safety Data and Analysis

### B. Selected peer-reviewed publications

- Monsere, C., Wilson, E., Springberg, A. "Enhancing the Oregon Crash Reporting Process: A Feasibility Assessment." Institute of Transportation Engineers, District 6 Annual Meeting, Kalispell, Montana, July 10-13, 2005.

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- Monsere, C., Bertini, R.L., Bosa, P., and de la Houssaye, D. “Improving the Highway Safety Process: An Update and Enhancement to the Oregon DOT’s Crash Reduction Factors List.” Institute of Transportation Engineers, District 6 Annual Meeting, Kalispell, Montana, July 10-13, 2005
- Grile, C., Monsere, C., Hunter Zaworski, K. “Programming Safety Improvements on Pavement Resurfacing, Restoration, and Rehabilitation Projects.” *Transportation Research Record: Journal of the Transportation Research Board*, Washington, D.C., 2004. (In press)
- Monsere, C., Nolan, C., Bertini, R.L., Anderson, A. and El-Seoud, T. “Measuring the Impacts of Speed Reduction Technologies: A Dynamic Advanced Curve Warning System Evaluation.” *Transportation Research Record: Journal of the Transportation Research Board*, Washington, D.C., 2004. (In press).
- Monsere, C., Bertini, R.L. and Moes, T. “Exploring Spatial and Temporal Performance Measurement In Metropolitan Transportation Safety Improvement Program” Proceedings of the 9th International Conference on Computers in Urban Planning and Urban Management, London, United Kingdom, June 29, 2005
- Monsere, C., B. Sposito, S. Johnston. “Safety Effectiveness and Operating Performance of Three-Cable Median Barrier on Interstate 5 in Oregon.” Compendium of Technical Papers, Institute of Transportation Engineers 2003 Annual Meeting, Seattle, Washington, August 2003.
- Malik, S., Bertini, R.L. and Monsere, C. “Crash Data Reporting And Analysis – An Oregon Pilot Study.” Compendium of Technical Papers, Institute of Transportation Engineers 2003 Annual Meeting, Seattle, Washington, 2003.

### C. Research Support

<b>NAME OF INDIVIDUAL PROJECTS</b>		
<b><u>ONGOING/COMPLETED</u></b>		
<p>1 (PI-Monsere)            Source: Oregon Department of Transportation            Title of Project: <i>Impacts and Issues Related to Changes in Interstate Speed Limits</i>            The major goals of this project were to summarize existing knowledge on the potential impacts to motor vehicle safety and the environment if Interstate speed limits were raised to 70 MPH. PI responsible for 60% of content and synthesizing chapters.</p>	<p>Dates of Project:            5/1/2004-9/30/2004            Annual Direct Costs:            \$35,000</p>	<p>Percent Effort            8%</p> <p>Complete</p>
<p>2 (PI-Monsere)            Source: Oregon Department of Transportation            Title of Project: <i>Understanding the Safety Effects of Roadway Illumination Reductions</i>            The major goals of this project are retrospectively study the effect of reduced illumination at select locations.</p>	<p>Dates of Project:            2/1/2005-12/28/2005            Annual Direct Costs:            \$38,000</p>	<p>Percent Effort            10%</p> <p>Ongoing</p>

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<p>3 (Co-PI-Monsere, w/ R.L. Bertini)  Source: TransNow University Transportation Center and Oregon Department of Transportation  Title of Project: <i>Enhancing the Oregon Crash Reporting Process: A Feasibility Assessment</i>  The major goals of this project are study ways of improving Oregon's crash data collection process. PI responsible for research design and execution.</p>	<p>Dates of Project:  9/1/2004-2/28/2006  Annual Direct Costs:  \$46,855</p>	<p>Percent Effort  8%   Ongoing</p>
<p>4 (Co-PI-Monsere, w/ R.L. Bertini)  Source: City of Portland  Title of Project: <i>Community and School Traffic Safety Partnership Research and Evaluation</i>  The major goals of this project are to evaluate appropriate performance measures and selection methodologies for safety improvements. PI responsible for research design, reports, and relationships with City of Portland.</p>	<p>Dates of Project:  7/1/2004-6/30/2005  Annual Direct Costs:  \$32,214</p>	<p>Percent Effort  16%   Ongoing</p>
<p>5 (PI-Monsere)  Source: Clackamas County  Title of Project: <i>Clackamas County Traffic Safety Commission Safety Survey</i>  The major goals of this project were to compile a citizen survey and analysis on safety issues.</p>	<p>Dates of Project:  2/1/2005-6/30/2005  Annual Direct Costs:  \$3,000</p>	<p>Percent Effort  2%   Complete</p>
<p>6 (Co-PI-Monsere, with J. Dill)  Source: TransNow University Transportation Center and Oregon Department of Transportation  Title of Project: <i>Establishing the Link Between Urban Form, Street Connectivity, Roadway Design, and Pedestrian Safety</i>  The major goals of this project are to use crash data to establish the connection between street connectivity and pedestrian safety. Project starts in September 2005.</p>	<p>Dates of Project:  9/1/2005-8/30/2005  Annual Direct Costs:  \$44,593</p>	<p>Percent Effort  8%   To Start 9/1</p>